

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/004204

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F04B53/00 F04B53/16 F04B53/08 F04B17/03 F04D29/40  
F04D29/60

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F04B F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 863 312 A (THOMAS INDUSTRIES, INC.) 9 September 1998 (1998-09-09)	17
A	column 1, line 16 - column 2, line 38 figure 1	1,7-9
A	GB 1 132 161 A (BAUS, HEINZ GEORG) 30 October 1968 (1968-10-30) page 1, line 75 - page 2, line 30 page 3, line 50 - line 54 figures 1,2,4,7	1,2,6-9, 17
A	US 4 597 717 A (TRULINE C.N.C., INC.) 1 July 1986 (1986-07-01) column 9, line 57 - column 10, line 10 column 11, line 45 - column 12, line 2 figures 1,2	1-3,8,9
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

10 January 2005

Date of mailing of the international search report

18/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 782 738 A (GAST MANUFACTURING CORPORATION) 8 November 1988 (1988-11-08) column 1, line 44 - column 2, line 12 column 2, line 44 - column 3, line 12 figures 1,4 -----	1,8,9,17
A	US 4 978 284 A (COOK, J.E. ET AL.) 18 December 1990 (1990-12-18) column 1, line 48 - line 65 column 2, line 8 - column 4, line 19 figures 1-4 -----	1,8,9,17

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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US 4597717	A	01-07-1986	DE 3335608 A1 GB 2127498 A , B JP 59087282 A	05-04-1984 11-04-1984 19-05-1984
US 4782738	A	08-11-1988	NONE	
US 4978284	A	18-12-1990	NONE	